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## **Amendments to the Claims:**

This listing of claims replaces all prior versions, and listings, of claims in this application.

## **Listing of Claims:**

- 1. (Original) A multimode filter in an optical storage device for filtering an error signal and extracting a frequency signal, said multimode filter comprising:
- a CLV mode filter for filtering said error signal and extracting a narrow bandwidth signal;
- a CAV mode filter for filtering said error signal and extracting a wide bandwidth signal; and
  - a switch for selection of the filter between CLV and CAV mode filter.
- 2. (Original) The multimode filter as claimed in claim 1, wherein said CAV mode filter comprising:
- a high pass filter for filtering said error signal and generating an intermediate signal; and a low pass filter that connects with said high pass filter for receiving and filtering said intermediate signal from the high pass filter.
- 3. (Original) The multimode filter as claimed in claim 2, wherein said high pass filter has a cutoff frequency of multiple times of 22.05KHz.
- 4. (Original) The multimode filter as claimed in claim 2, wherein said low pass filter has a cutoff frequency of multiple times of 55KHz.

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5. (Original) The multimode filter as claimed in claim 1, wherein said frequency signal has a center frequency of multiple times of 22.05KHz.

- 6. (Original) The multimode filter as claimed in claim 1, wherein said error signal is a tracking error signal.
- 7. (Original) The multimode filter as claimed in claim 1, wherein said optical storage device is selected from the group consisting of CD-R, CE-RW, DVD-R, DVD-RW, DVD+RW, DVD-RAM.
- 8. (Original) An optical storage device having a multimode filter for filtering an error signal and extracting a frequency signal, said multimode filter comprising:
- a CLV mode filter for filtering said error signal and extracting a narrow bandwidth signal;
- a CAV mode filter for filtering said error signal and extracting a wide bandwidth signal; and
  - a switch for selection of the filter between CLV and CAV mode filter.
- 9. (Original) The multimode filter as claimed in claim 8, wherein said CAV mode filter comprising:
  - a high pass filter for filtering said error signal and generating an intermediate signal; and

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a low pass filter that connects with said high pass filter for receiving and filtering said intermediate signal from the high pass filter.

- 10. (Original) The multimode filter as claimed in claim 9, wherein said high pass filter has a cutoff frequency of multiple times of 22.05 KHz.
- 11. (Original) The multimode filter as claimed in claim 9, wherein said low pass filter has a cutoff frequency of multiple times of 55 KHz..
- 12. (Original) The multimode filter as claimed in claim 8, wherein said frequency signal has a center frequency of multiple times of 22.05 KHz.
- 13. (Original) The multimode filter as claimed in claim 8, wherein said error signal is a tracking error signal.
- 14. (Original) The multimode filter as claimed in claim 8, wherein said optical storage device is selected from the group consisting of CD-R, CD-RW, DVD-R, DVD-RW, DVD+RW, DVD-RAM.
- 15. (Currently Amended) A multimode filtering method for filtering an error signal of an optical storage device, said multimode filtering method comprising:

inputting an error signal to a multimode filter;

setting a the frequency domain of said multimode filter in accordance with <u>a selection of</u> the recording mode of said optical storage device; and

filtering said error signal and extracting a frequency signal.

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16. (Original) The multimode filtering method as claimed in claim 15, wherein said multimode filter comprises a CLV and CAV mode filter.

- 17. (Original) The multimode filtering method as claimed in claim 16, wherein said CLV mode filter has a center frequency of multiple times of 22.05 KHz, and the CAV mode filter has cutoff frequencies of multiple times of 22.05 KHz and 55 KHz.
- 18. (Original) The multimode filtering method as claimed in claim 15, wherin said frequency signal has a center frequency of multiple times of 22.05 KHz.
- 19. (Currently Amended) The multimode <u>filtering method</u> <del>filter</del> as claimed in claim 15, wherein said error signal is a tracking error signal.
- 20. (Original) The multimode filtering method as claimed in claim 15, wherein said optical storage device is selected from the group consisting of CD-R, CD-RW, DVD-R, DVD-RW, DVD-RAM.